

Title (en)
LIGHT-EMITTING ELEMENT AND DISPLAY DEVICE

Title (de)
LICHTEMITTIERENDES ELEMENT UND ANZEIGEVORRICHTUNG

Title (fr)
ÉLÉMENT ÉLECTROLUMINESCENT ET DISPOSITIF D’AFFICHAGE

Publication
EP 4016145 A4 20221012 (EN)

Application
EP 20881183 A 20201016

Priority
• JP 2019197494 A 20191030
• JP 2020039057 W 20201016

Abstract (en)
[origin: EP4016145A1] A light-emitting element and a display device capable of improving the light emission property are provided. Each of a plurality of anode electrodes (11) is provided for a corresponding pixel. The pixel-isolating insulation film (12) has an opening (120) exposing corresponding one of the plurality of anode electrodes (11) to outside, and has an eave (123B) in the middle of a thickness direction of an inner wall of the opening (120). An organic layer (13) includes a CGL (132) cut by the eave (123B) of the pixel-isolating insulation film (12), and covers the opening (120). A cathode electrode (14) is disposed on a surface of the organic layer (13), the surface being a surface on the opposite side of the anode electrode (11).

IPC 8 full level
G02B 5/20 (2006.01); **H01L 27/32** (2006.01); **H01L 51/50** (2006.01); **H05B 33/12** (2006.01); **H05B 33/22** (2006.01); **H05B 33/26** (2006.01); **H05B 33/28** (2006.01)

CPC (source: CN EP KR US)
G02B 5/20 (2013.01 - EP); **H10K 50/13** (2023.02 - KR); **H10K 50/813** (2023.02 - US); **H10K 50/82** (2023.02 - US); **H10K 59/122** (2023.02 - EP KR); **H10K 59/32** (2023.02 - EP); **H10K 59/35** (2023.02 - EP); **H10K 59/38** (2023.02 - EP KR US); **H10K 59/8052** (2023.02 - CN EP KR); **H10K 59/873** (2023.02 - CN EP KR)

Citation (search report)
• [X] US 2013001620 A1 20130103 - SUGISAWA NOZOMU [JP], et al
• [X] EP 2955766 A1 20151216 - LG DISPLAY CO LTD [KR]
• [X] US 2014103368 A1 20140417 - HATANO KAORU [JP], et al
• See also references of WO 2021085176A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4016145 A1 20220622; **EP 4016145 A4 20221012**; CN 114616689 A 20220610; JP WO2021085176 A1 20210506; KR 20220091476 A 20220630; TW 202123509 A 20210616; US 2022393132 A1 20221208; WO 2021085176 A1 20210506

DOCDB simple family (application)
EP 20881183 A 20201016; CN 202080074128 A 20201016; JP 2020039057 W 20201016; JP 2021554365 A 20201016; KR 20227012789 A 20201016; TW 109136625 A 20201022; US 202017770401 A 20201016